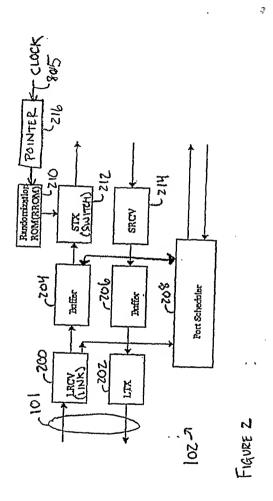
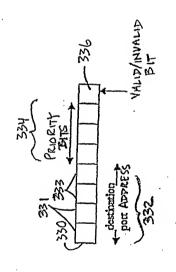


figure 1



3/21



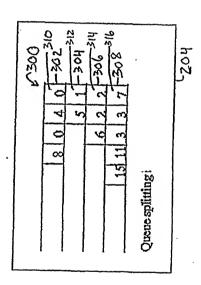
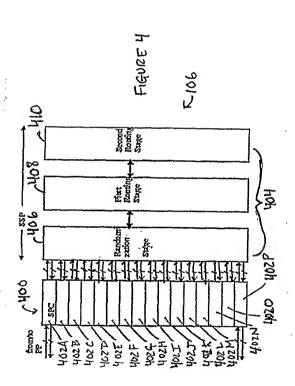
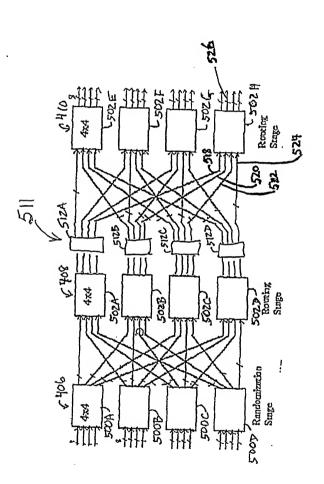


Figure 3A

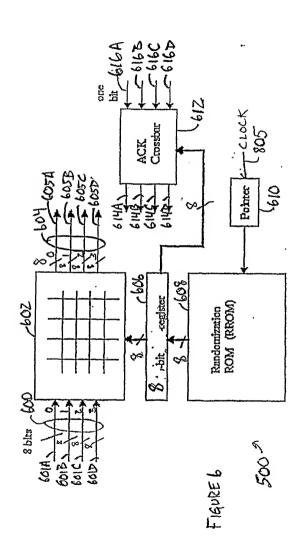


5/21

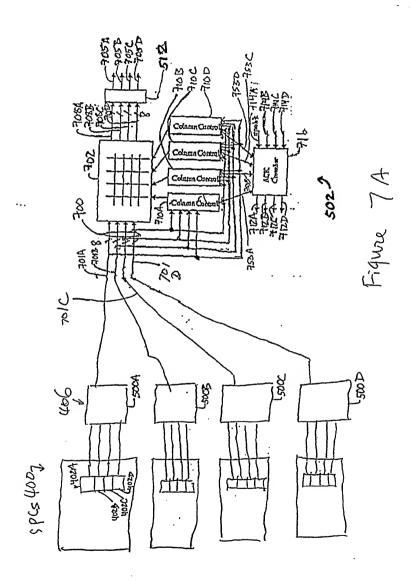


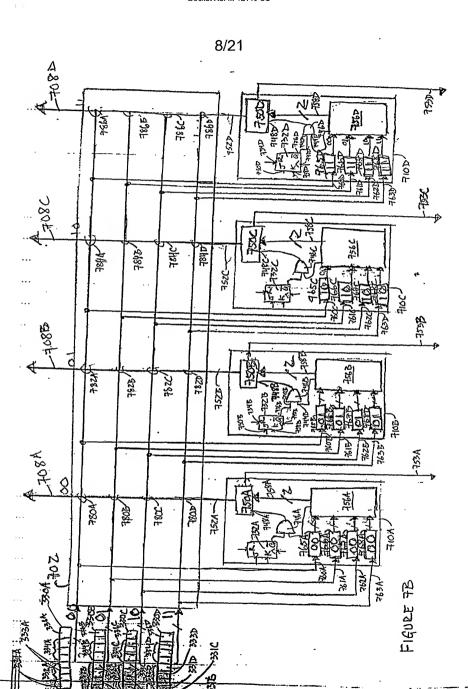
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6/21

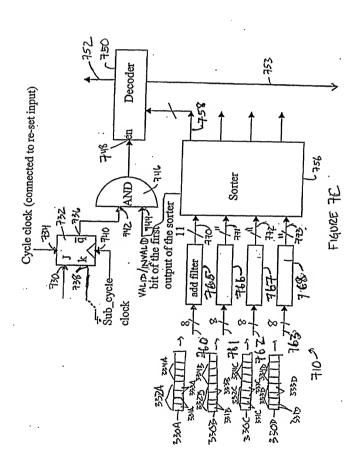


7/21

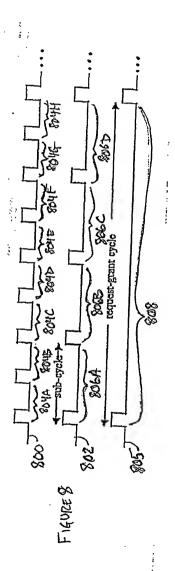




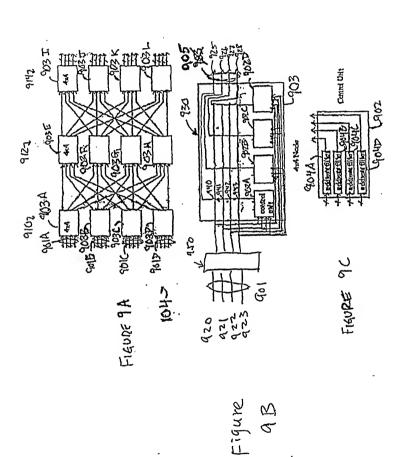
9/21

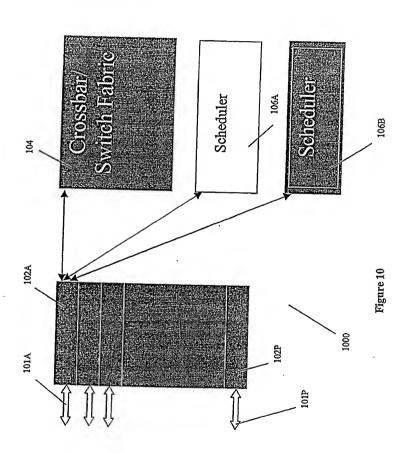


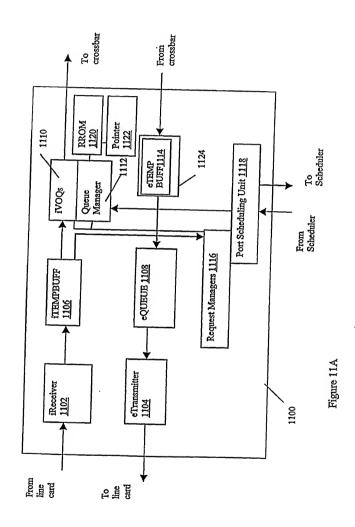
10/21



11/21







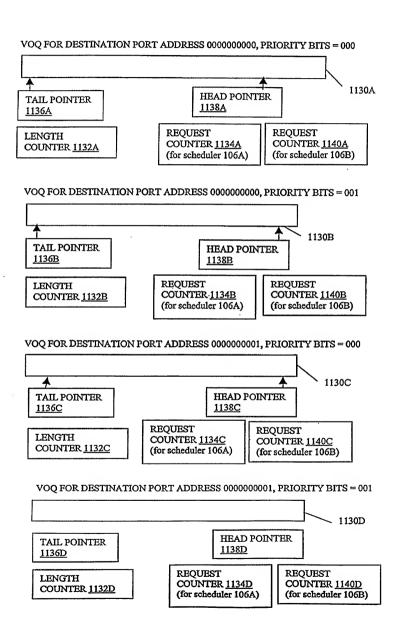


FIGURE 11B

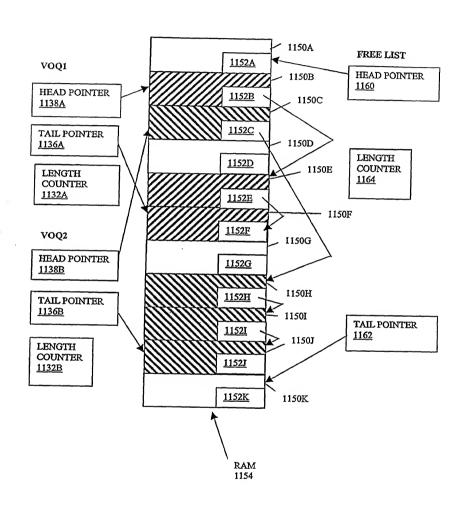


FIGURE 11C

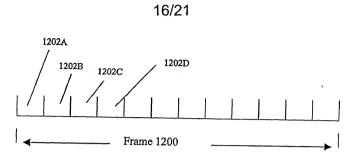


Figure 12

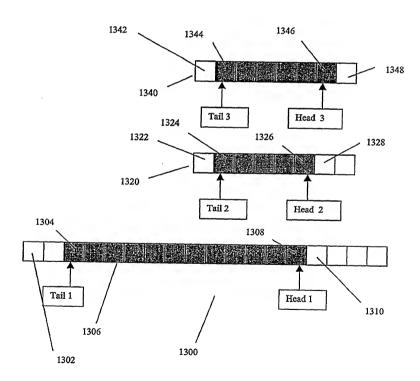


Figure 13

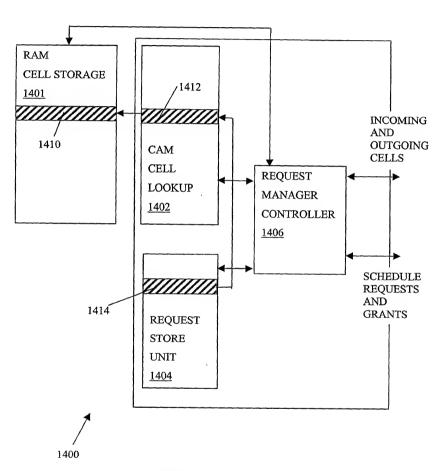


FIGURE 14

Cell Lookup CAM entry Format

Bit[0]	Valid
Bits[10:1]	Pointer
Bits[13:11]	Priority
Bits [24:14]	Destination Address
1	

Unicast Request Store Entry Format

	Bit[0]	Valid
	Bits[7:1]	Priority
	Bits[19:8]	Destination Address0
	Bits[23:20]	Request Count
	Bits[33:24]	Head Pointer
	Bits[43:34]	Tail Pointer
	Bit[44]	Queue Over Limit
	Bit[45]	Flow Control
ł		

FIGURE 16A

Bit[0]	Valid
Bits[3:1]	Priority
Bits[15:4]	Destination Address0
Bits[19:16]	Request Count
Bits[29:20]	Head Pointer
Bits[39:30]	Tail Pointer
Bit[40]	Flow Control

FIGURE 16B

Multicast Request Store Entry Format

	Widileast Request Store Entry Politiat		
	Bit[0]	Valid	
	Bits[3:1]	Priority	
	Bits[7:4]	Cell Requested	
	Bits[11:8]	Cell Sent	
	Bits[15:12]	Flow Control	
	Bits[25:16]	Cell Address	
	Bits[37:26]	Destination Address0	
	Bit[49:38]	Destination Address1	
	Bit[61:50]	Destination Address2	
	Bit[73:62]	Destination Address3	
ļ			

RECEIVE UNICAST CELL; EXAMINE DESTINATION ADDRESS ~1800 AND PRIORITY LEVEL OF RECEIVED CELL LOCATE OR CREATE AN ENTRY IN THE UNICAST REQUEST STORE UNIT THAT HAS THE SAME DESTINATION ADDRESS 1802 AND PRIORITY LEVEL AS THE RECEIVED CELL LOCATE AN AVAILABLE ENTRY IN THE CAM; TRANSFER -1804 THE DESTINATION ADDRESS, PRIORITY LEVEL AND TAIL POINTER FROM THE REQUEST STORE ENTRY TO THE DESTINATION ADDRESS, PRIORITY LEVEL AND POINTER FIELDS OF THE LOCATED ENTRY IN THE CAM AND ASSERT THE VALID BIT OF THE CAM ENTRY WRITE THE RECEIVED CELL INTO A MEMORY LOCATION IN -1806 THE RAM THAT CORRESPONDS TO THE ADDRESS OF THE NEW CAM ENTRY INCREMENT THE TAIL POINTER OF THE ENTRY IN THE 1808 REQUEST STORE UNIT

RECEIVE A REQUEST GRANT FROM THE SCHEDULER; FIND AN ENTRY IN THE REQUEST STORE UNIT WITH A DESTINATION ADDRESS AND PRIORITY LEVEL THAT MATCH THE DESTINATION ADDRESS AND PRIORITY LEVEL OF THE REQUEST GRANT

1900

SEND THE DESTINATION ADDRESS, PRIORITY LEVEL AND HEAD POINTER OF THE FOUND ENTRY IN THE REQUEST STORE UNIT TO THE CAM OR CONTROL LOGIC COUPLED TO THE CAM; FIND AN ENTRY IN THE CAM WITH A DESTINATION ADDRESS, PRIORITY LEVEL AND POINTER VALUE THAT MATCH THE DESTINATION ADDRESS, PRIORITY LEVEL AND HEAD POINTER VALUE OF THE FOUND ENTRY IN THE REQUEST STORE UNIT

1902

OUTPUT AN ADDRESS OF THE CAM ENTRY WITH A
DESTINATION ADDRESS, PRIORITY LEVEL AND POINTER
VALUE THAT MATCH THE DESTINATION ADDRESS, PRIORITY
LEVEL AND HEAD POINTER VALUE OF THE ENTRY IN THE
REQUEST STORE UNIT; USE THE ADDRESS OF THE CAM
ENTRY TO RETRIEVE A CELL STORED IN A MEMORY
LOCATION OF THE RAM WITH THE SAME ADDRESS

1904

SEND THE RETRIEVED CELL TO THE SWITCH FABRIC FOR SWITCHING; INCREMENT THE HEAD POINTER OF THE REQUEST STORE UNIT ENTRY; IF THE VOQ IS NOW EMPTY, INVALIDATE THE REQUEST STORE UNIT ENTRY; IF THE VOQ IS NOT EMPTY, DECREMENT THE REQUEST COUNT FIELD IN THE REQUEST STORE UNIT ENTRY; INVALIDATE CAM ENTRY

-1906